Nuclear Instruments and Methods in Physics Research A288 (1990) 665–676
North-Holland

AUTHOR INDEX

Abegg, R., see Bonin, B. A288 (1990) 379
Abegg, R., see Bonin, B. A288 (1990) 389
Adolphsen, C., G. Gratta, L. Labarga, A. Litke, A. Schwarz, M. Turala, C. Zaccardelli, A. Breakstone, S. Parker, B. Barnett, C. Boswell, P. Dauncey, D. Drewer, J. Matthews, S. Vejcik, R. Jacobsen and V. Lüth, An alignment method for the MARK II silicon strip vertex detector using an X-ray beam A288 (1990) 257
Agnew, G., see Damerell, C.J.S. A288 (1990) 236
Al-Niemi, N., see Saraf, S.K. A288 (1990) 451
Alexandrov, B.M., D.I. Ivanov, G.Ya. Kezerashvili, A.S. Krivokhatsky, V.V. Muratov, V.G. Nedorezov, A.S. Sudov and V.A. Zapevalov, A nuclear fragment detector for experiments with backscattered laser photons .. A288 (1990) 399
Amenomori, M., H. Nanjo, N. Hotta, I. Ohta, K. Kasahara, To. Saito, T. Yuda, K. Mizutani, T. Shirai, N. Tateyama, S. Torii, M. Shibata, H. Sugimoto, K. Taira, K. Hibino, F. Kajino, M. Nishizawa, M. Ohnishi, M. Sakata, M. Shima and Y. Yamamoto, Development and performance test of a prototype air shower array for search for gamma ray point sources in the very high energy region A288 (1990) 619
Ansari, R., E. Beuville, K. Borer, P. Cenci, A.G. Clark, A. Federspiel, O. Gildemeister, C. Gössling, K. Hara, E.H.M. Heijne, P. Jarron, P. Lariccia, B. Lisowski, D.J. Munday, T. Pal, M.A. Parker, M. Pepe, P. Scampoli, V. Simak, S.L. Singh and P.S. Wells, Successful operation of a new Si-pad detector with ASIC readout at the CERN $\bar{p}p$-collider A288 (1990) 240
Antinori, F., D. Barberis, W. Beusch, M. Dameri, J.P. Dufey, B.R. French, A. Forino, E.H.M. Heijne, A. Jacholkowski, P. Jarron, P. Legros, D. Marioli, C. Meroni, F. Muller, A. Olcese, B. Osculati, N. Redaelli, L. Rossi and D. Torretta, Results on a 10 micron pitch detector with individual strip readout A288 (1990) 82
Arefiev, A., see L3 Collaboration A288 (1990) 364
Aschman, D.G., see McMurray, W.R. A288 (1990) 421
Aubert, J., see Coste, Ph. A288 (1990) 517
Audet, S.A., see Wouters, S.E. A288 (1990) 44
Audet, S.A., see Schooneveld, E.M. A288 (1990) 250
Avset, B.S., J. Ellison, L. Evensen, G. Hall, T-E. Hansen, S. Roe and R. Wheadon, Silicon drift photodiodes ... A288 (1990) 131
Azemoon, T., see L3 Collaboration A288 (1990) 364

Bambade, P., see Phinney, N. A288 (1990) 308
Bannenberg, J.G., see Wojke, R.G.C. A288 (1990) 329
Barabash, L.S., E. Belcarz, Yu.B. Gurov, E.I. Maltsev, L.P. Mészáros, Yu.P. Petukhov, A.G. Pimenov and V.G. Sandukovsky, Semiconductor microstrip detector with a resistive layer A288 (1990) 375
Barberis, D., see Antinori, F. A288 (1990) 82
Barnett, B., see Adolphsen, C. A288 (1990) 257
Barry, W. and S.Y.R. Liu, Characteristic impedance and loss data for a common stripline pickup geometry A288 (1990) 593
Bashindzhagyan, G.L., P.F. Ermolov, N.B. Sinev and A.G. Voronin, Proposal for a uranium–silicon precision calorimeter for the UNK 6 TeV hadron collider A288 (1990) 265
Belcarz, E., see Barabash, L.S. A288 (1990) 375
Benton, D.R., see Coulter, K.P. A288 (1990) 463
Bertuccio, G., see Rehak, P. A288 (1990) 168
Beusch, W., see Antinori, F. A288 (1990) 82
Beuville, E., P. Cenci, A. Federspiel, C. Gössling, E.H.M. Heijne, P. Jarron, H.W. Kraner, T. Massam, D. Munday and T. Pal, Measurements of degradation of silicon detectors and electronics in various radiation environments A288 (1990) 68
Beuville, E., K. Borer, E. Chesi, E.H.M. Heijne, P. Jarron, B. Lisowski and S. Singh, AMPLEX, a low-noise, low-power analog CMOS signal processor for multi-element silicon particle detectors A288 (1990) 157
Beuville, E., see Ansari, R. A288 (1990) 240
Bharuth-Ram, K., see McMurray, W.R. A288 (1990) 421
Bigongiari, A., W. Fulgione, D. Passuello, O. Saavedra and G.C. Trinchero, High modularity fast charge–time digitizer in neutrino burst detection A288 (1990) 529
Blann, M., see Kataria, S.K. A288 (1990) 585
Bock, R.K., see Lone, S. A288 (1990) 507

0168-9002/90/$03.50 © Elsevier Science Publishers B.V.
(North-Holland)

Bonin, B., A. Boudard, H. Fanet, R.W. Fergerson, M. Garçon, C. Giorgetti, J. Habault, J. Le Meur, R.M. Lombard, J.C. Lugol, B. Mayer, J.P. Mouly, E. Tomasi-Gustafsson, J.C. Duchazeaubeneix, J. Yonnet, M. Morlet, J. Van de Wiele, A. Willis, G. Greeniaus, G. Gaillard, P. Markowitz, C.F. Perdrisat, R. Abegg and D.A. Hutcheon, Measurement of the inclusive p–C analyzing power and cross section in the 1 GeV region and calibration of the new polarimeter POMME A288 (1990) 379

Bonin, B., A. Boudard, H. Fanet, R.W. Fergerson, M. Garçon, C. Giorgetti, J. Habault, J. Le Meur, R.M. Lombard, J.C. Lugol, B. Mayer, J.P. Mouly, E. Tomasi-Gustafsson, J.C. Duchazeaubeneix, J. Yonnet, M. Morlet, J. Van de Wiele, A. Willis, G. Greeniaus, G. Gaillard, P. Markowitz, C.F. Perdrisat, R. Abegg and D.A. Hutcheon, POMME: a medium energy deuteron polarimeter based on semi-inclusive d-carbon scattering A288 (1990) 389

Booth, N.E., see Payne, A.G.D. A288 (1990) 632

Borer, K., see Beuville, E. A288 (1990) 157

Borer, K., see Ansari, R. A288 (1990) 240

Boswell, C., see Adolphsen, C. A288 (1990) 257

Boudard, A., see Bonin, B. A288 (1990) 379

Boudard, A., see Bonin, B. A288 (1990) 389

Bowman, C.D., see Coulter, K.P. A288 (1990) 463

Bowman, J.D., see Coulter, K.P. A288 (1990) 463

Bräuninger, H., see Strüder, L. A288 (1990) 227

Breakstone, A., see Adolphsen, C. A288 (1990) 257

Breskin, A., see Overbeck, M. A288 (1990) 413

Brient, C.E., see Saraf, S.K. A288 (1990) 451

Brügger, M., see Overbeck, M. A288 (1990) 413

Buchmann, L., see D'Auria, J.M. A288 (1990) 354

Burger, P., see Verplancke, J. A288 (1990) 287

Buttler, W., G. Lutz, V. Liberali, F. Maloberti, P.F. Manfredi, V. Re and V. Speziali, Evolution in the criteria that underlie the design of a monolithic preamplifier system for microstrip detectors A288 (1990) 140

Buttler, W., B.J. Hosticka and G. Lutz, Noise filtering for readout electronics A288 (1990) 187

Buttler, W., see Strüder, L. A288 (1990) 227

Buzulutskov, A.F., L.K. Turchanovich, V.G. Vasilchenko, Y.L. Jansons, Z.A. Rachko, V.J. Valbis and N.M. Khaidukov, Investigation of the crystal scintillations in the VUV region (*Letter to the Editor*) A288 (1990) 659

Cabrera, B., see Young, B.A. A288 (1990) 119

Caldwell, A., see Möschen, J. A288 (1990) 180

Campbell, M., see Krummenacher, F. A288 (1990) 176

Capasso, F., see Ripamonti, G. A288 (1990) 99

Cates, G.D., see Coulter, K.P. A288 (1990) 463

Cattaneo, P., see Strüder, L. A288 (1990) 227

Cenci, P., see Beuville, E. A288 (1990) 68

Cenci, P., see Ansari, R. A288 (1990) 240

Chechik, R., see Overbeck, M. A288 (1990) 413

Chen, G.M., see L3 Collaboration A288 (1990) 364

Chen, H.S., see L3 Collaboration A288 (1990) 364

Chesi, E., see Beuville, E. A288 (1990) 157

Chikov, N., see Sueva, D. A288 (1990) 460

Chilingarov, A.G., L.V. Romanov, R. Leiste and K. Trützschler, Silicon microstrip detector radiation damage by 1.5 MeV electrons and synchrotron radiation A288 (1990) 62

Chupp, T.E., see Coulter, K.P. A288 (1990) 463

Claeys, C., see Vanstraelen, G. A288 (1990) 48

Clark, A.G., see Ansari, R. A288 (1990) 240

Clarke, P., see Damerell, C.J.S. A288 (1990) 236

Cohen, D., see Dytlewski, N. A288 (1990) 641

Coninckx, F., see Schönbacher, H. A288 (1990) 612

Coste, Ph., J. Aubert, J.P. Gilles et C. Lejeune, Automatisation d'une source d'ions de type SIRE A288 (1990) 517

Coulter, K.P., T.E. Chupp, A.B. McDonald, C.D. Bowman, J.D. Bowman, J.J. Szymanski, V. Yuan, G.D. Cates, D.R. Benton and E.D. Earle, Neutron polarization with a polarized ^{3}He spin filter A288 (1990) 463

Crawley, G.M., see Krofcheck, D. A288 (1990) 497

Croal, A., see Dytlewski, N. A288 (1990) 641

Croft, S., The distribution of emergent flight path lengths from homogeneous spheres A288 (1990) 589

DØ Calorimeter Group, Hadron and electron response of uranium/liquid argon calorimeter modules for the DØ detector, Nucl. Instr. and Meth. A280 (1989) 36–44 (*Erratum*) ... A288 (1990) 662
Damdinsuren, C., V.M. Dyachenko, P. Kozma and K.D. Tolstov, Monitoring system for relativistic particles and nuclei ... A288 (1990) 319
Damerell, C.J.S., R.L. English, A.R. Gillman, A.L. Lintern, D. Phillips, D. Su, F.J. Wickens, G. Agnew, P. Clarke, S. Hedges, A. McKemey and S.J. Watts, A CCD-based vertex detector for SLD ... A288 (1990) 236
Dameri, M., see Antinori, F. ... A288 (1990) 82
Dauncey, P., see Adolphsen, C. ... A288 (1990) 257
D'Auria, J.M., M. Dombsky, L. Buchmann and J.S. Vincent, Studies related to the production of an isotopically pure ^{22}Na radioactive target ... A288 (1990) 354
Davinson, T., see Thomas, S.L. ... A288 (1990) 212
Davinson, T., A.C. Shotter, E.W. Macdonald, S.V. Springham, P. Jobanputra, A.J. Stephens and S.L. Thomas, Development of a silicon strip detector array for nuclear structure physics ... A288 (1990) 245
Dawes Jr., W.R., Overview of radiation hardening for semiconductor detectors ... A288 (1990) 54
Dawidowski, J., see Mayer, R.E. ... A288 (1990) 467
De Backker, K., see Vanstraelen, G. ... A288 (1990) 48
Debusschere, I., see Vanstraelen, G. ... A288 (1990) 48
Declerck, G., see Vanstraelen, G. ... A288 (1990) 48
Declercq, M., see Krummenacher, F. ... A288 (1990) 176
Delaney, C.F.G., see Henari, F.Z. ... A288 (1990) 439
DeWitt, J., The time slice system ... A288 (1990) 209
Djalali, C., see Krofcheck, D. ... A288 (1990) 497
Dombsky, M., see D'Auria, J.M. ... A288 (1990) 354
Dreier, P., High resistivity silicon for detector applications ... A288 (1990) 272
Drewer, D., see Adolphsen, C. ... A288 (1990) 257
Duchazeaubeneix, J.C., see Bonin, B. ... A288 (1990) 379
Duchazeaubeneix, J.C., see Bonin, B. ... A288 (1990) 389
Dufey, J.P., see Antinori, F. ... A288 (1990) 82
Duijn, J.H., C.W.E. Van Eijk, R.W. Hollander, R. Kreuger and G.W. Sloof, A hardware readout system for a curved one dimensional position sensitive proportional counter. I. Electronics ... A288 (1990) 486
Duijn, J.H., C.W.E. Van Eijk, R.W. Hollander, R. Kreuger and G.W. Sloof, A hardware readout system for a curved one dimensional position sensitive proportional counter. II. Software correction of recorded spectra ... A288 (1990) 493
Dyachenko, V.M., see Damdinsuren, C. ... A288 (1990) 319
Dytlewski, N., A. Croal, D. Cohen, A. Katsaros, M. Lavin and S. Singh, A monoenergetic neutron beam facility for biological irradiations ... A288 (1990) 641

Earle, E.D., see Coulter, K.P. ... A288 (1990) 463
Ellilä, M. and K. Pollari, A room-temperature CCD imaging system for the detection of beta-emitting tracers ... A288 (1990) 267
Ellison, J., see Avset, B.S. ... A288 (1990) 131
Emma, P., T.H. Fieguth and T. Lohse, Online monitoring of dispersion functions and transfer matrices at the SLC ... A288 (1990) 313
English, R.L., see Damerell, C.J.S. ... A288 (1990) 236
Entine, G., see Farrell, R. ... A288 (1990) 137
Enz, C.C., see Krummenacher, F. ... A288 (1990) 176
Ermolin, Y., see Lone, S. ... A288 (1990) 507
Ermolov, P.F., see Bashindzhagyan, G.L. ... A288 (1990) 265
Evensen, L., see Avset, B.S. ... A288 (1990) 131

Fanet, H., see Bonin, B. ... A288 (1990) 379
Fanet, H., see Bonin, B. ... A288 (1990) 389
Farrell, R., F. Olschner, E. Frederick, L. McConchie, K. Vanderpuye, M.R. Squillante and G. Entine, Large area silicon avalanche photodiodes for scintillation detectors ... A288 (1990) 137
Federspiel, A., see Beuville, E. ... A288 (1990) 68
Federspiel, A., see Ansari, R. ... A288 (1990) 240
Fent, J., see Schoeneberg, U. ... A288 (1990) 191
Fergerson, R.W., see Bonin, B. ... A288 (1990) 379
Fergerson, R.W., see Bonin, B. ... A288 (1990) 389
Fernandes, P., R. Parodi, C. Salvo and B. Spataro, The design of TE storage cavities for a rf pulse compressor system ... A288 (1990) 549
Fieguth, T.H., see Emma, P. ... A288 (1990) 313
Fifield, L.K. and N.A. Orr, The production of isotopic ^{36}S targets by ion implantation into carbon foils ... A288 (1990) 360

Finch, E.C., see Henari, F.Z. A288 (1990) 439
Fischer, P., see Schefer, J. A288 (1990) 477
Forino, A., see Antinori, F. A288 (1990) 82
Fraenkel, Z., see Overbeck, M. A288 (1990) 413
Fraser-Mitchell, J. and A.G. Wright, Contribution of photocathode nonuniformity to energy resolution in NaI(Tl) scintillation detectors A288 (1990) 429
Frederick, E., see Farrell, R. A288 (1990) 137
French, B.R., see Antinori, F. A288 (1990) 82
Fretwurst, E., H. Herdan, G. Lindström, U. Pein, M. Rollwagen, H. Schatz, P. Thomsen and R. Wunstorf, Silicon detector developments for calorimetry: technology and radiation damage A288 (1990) 1
Fulgione, W., see Bigongiari, A. A288 (1990) 529

Gaillard, G., see Bonin, B. A288 (1990) 379
Gaillard, G., see Bonin, B. A288 (1990) 389
Galaktionov, Yu., see L3 Collaboration A288 (1990) 364
Garçon, M., see Bonin, B. A288 (1990) 379
Garçon, M., see Bonin, B. A288 (1990) 389
Gatti, E., see Rehak, P. A288 (1990) 168
Gatti, E., see Strüder, L. A288 (1990) 227
Gildemeister, O., see Ansari, R. A288 (1990) 240
Gilles, J.P., see Coste, Ph. A288 (1990) 517
Gillette, V.H., see Mayer, R.E. A288 (1990) 467
Gillman, A.R., see Damerell, C.J.S. A288 (1990) 236
Giorgetti, C., see Bonin, B. A288 (1990) 379
Giorgetti, C., see Bonin, B. A288 (1990) 389
Golovatjuk, V.M., Z. Guzik, S.V. Kashigin, E.A. Khlynov, V.N. Ryzhov, E.N. Tsyganov, I.A. Tyapkin and A.S. Vodopianov, Basic parameters of the UCD microvertex detector A288 (1990) 254
Gössling, C., see Beuville, E. A288 (1990) 68
Gössling, C., see Ansari, R. A288 (1990) 240
Granada, J.R., see Mayer, R.E. A288 (1990) 467
Gratta, G., see Adolphsen, C. A288 (1990) 257
Greeniaus, G., see Bonin, B. A288 (1990) 379
Greeniaus, G., see Bonin, B. A288 (1990) 389
Grimes, S.M., see Saraf, S.K. A288 (1990) 451
Gross, R., see Hebrank, F. A288 (1990) 541
Günzler, R., see Maisch, T. A288 (1990) 19
Gurov, Yu.B., see Barabash, L.S. A288 (1990) 375
Gutknecht, D., Photomask technique for fabricating high purity germanium strip detectors A288 (1990) 13
Guzik, Z., see Golovatjuk, V.M. A288 (1990) 254

Habault, J., see Bonin, B. A288 (1990) 379
Habault, J., see Bonin, B. A288 (1990) 389
Hall, G., see Avset, B.S. A288 (1990) 131
Hansen, T-E., see Avset, B.S. A288 (1990) 131
Hara, K., see Ansari, R. A288 (1990) 240
Hauff, D., see Strüder, L. A288 (1990) 227
Hebrank, F., S. Lemke, R.P. Huebener and R. Gross, Nb–AlO_x–Nb tunnel junctions as detectors for ionizing radiation A288 (1990) 541
Hedges, S., see Damerell, C.J.S. A288 (1990) 236
Heer, H., see Schefer, J. A288 (1990) 477
Heijne, E.H.M., see Beuville, E. A288 (1990) 68
Heijne, E.H.M., see Antinori, F. A288 (1990) 82
Heijne, E.H.M., see Beuville, E. A288 (1990) 157
Heijne, E.H.M., see Krummenacher, F. A288 (1990) 176
Heijne, E.H.M., see Ansari, R. A288 (1990) 240
Henari, F.Z., E.C. Finch and C.F.G. Delaney, The influence of inhomogeneities in materials properties in silicon radiation detectors A288 (1990) 439
Henck, R., Intertechnique capabilities in detector fabrication A288 (1990) 278
Herdan, H., see Fretwurst, E. A288 (1990) 1
Herrmann, G., see Overbeck, M. A288 (1990) 413
Hervas, L., see Möschen, J. A288 (1990) 180

Hibino, K., see Amenomori, M. A288 (1990) 619
Hoffman, C.M., see Sadrozinski, H.F.-W. A288 (1990) 76
Holl, P., see Rehak, P. A288 (1990) 168
Holl, P., see Strüder, L. A288 (1990) 227
Hollander, R.W., see Schooneveld, E.M. A288 (1990) 250
Hollander, R.W., see Duijn, J.H. A288 (1990) 486
Hollander, R.W., see Duijn, J.H. A288 (1990) 493
Holtkamp, D., see Sadrozinski, H.F.-W. A288 (1990) 76
Horisberger, R., The bipolar silicon microstrip detector: a proposal for a novel precision tracking device A288 (1990) 87
Hosticka, B., see Möschen, J. A288 (1990) 180
Hosticka, B.J., see Buttler, W. A288 (1990) 187
Hosticka, B.J., see Schoeneberg, U. A288 (1990) 191
Hotta, N., see Amenomori, M. A288 (1990) 619
Hou, W.S., see Hwang, C.S. A288 (1990) 324
Howden, S., see Krofcheck, D. A288 (1990) 497
Huang, Y., M. Yoon and S. Oh, A survey of the beam extraction from the Princeton AVF cyclotron A288 (1990) 293
Huebener, R.P., see Hebrank, F. A288 (1990) 541
Huizenga, J.R., see Tõke, J. A288 (1990) 406
Hutcheon, D.A., see Bonin, B. A288 (1990) 379
Hutcheon, D.A., see Bonin, B. A288 (1990) 389
Hutchinson, A.L., see Ripamonti, G. A288 (1990) 99
Hwang, C.S., M.S. Yang, F.C. Lin, M.W. Wu and W.S. Hou, Experimental study of beam emittance and brightness from a high-power field emission electron gun A288 (1990) 324

Isacson, A., see Schefer, J. A288 (1990) 477
Ivanov, D.I., see Alexandrov, B.M. A288 (1990) 399

Jacholkowski, A., see Antinori, F. A288 (1990) 82
Jacobsen, R., see Adolphsen, C. A288 (1990) 257
Jänsch, H.J., see Reich, H. A288 (1990) 349
Jansons, Y.L., see Buzulutskov, A.F. A288 (1990) 659
Jarron, P., see Beuville, E. A288 (1990) 68
Jarron, P., see Antinori, F. A288 (1990) 82
Jarron, P., see Beuville, E. A288 (1990) 157
Jarron, P., see Krummenacher, F. A288 (1990) 176
Jarron, P., see Ansari, R. A288 (1990) 240
Jobanputra, P., see Davinson, T. A288 (1990) 245

Kajino, F., see Amenomori, M. A288 (1990) 619
Kalbitzer, S., see Maisch, T. A288 (1990) 19
Kamyshkov, Yu., see L3 Collaboration A288 (1990) 364
Kandiah, K., Improvements in low frequency noise of MOSFETs for front end amplifiers A288 (1990) 150
Kasahara, K., see Amenomori, M. A288 (1990) 619
Kashigin, S.V., see Golovatjuk, V.M. A288 (1990) 254
Kataria, S.K., V.S. Ramamurthy, M. Blann and T.T. Komoto, Shell-dependent level densities in nuclear reaction codes A288 (1990) 585
Katsaros, A., see Dytlewski, N. A288 (1990) 641
Kemmer, J., see Maisch, T. A288 (1990) 19
Kemmer, J., G. Lutz, U. Prechtel, K. Schuster, M. Sterzik, L. Strüder and T. Ziemann, Experimental confirmation of a new semiconductor detector principle A288 (1990) 92
Kemmer, J., see Rehak, P. A288 (1990) 168
Kemmer, J., see Strüder, L. A288 (1990) 227
Kemmer, J., Present and future developments of Si detectors at MBB A288 (1990) 282
Kenziorra, E., see Strüder, L. A288 (1990) 227
Kezerashvili, G.Ya., see Alexandrov, B.M. A288 (1990) 399
Khaidukov, N.M., see Buzulutskov, A.F. A288 (1990) 659
Khlynov, E.A., see Golovatjuk, V.M. A288 (1990) 254
Kilian, K., see Sefzick, T. A288 (1990) 571
Kim, M.H., see Wouters, S.E. A288 (1990) 44
Kinnison, W.W., see Sadrozinski, H.F.-W. A288 (1990) 76
Klein, H., see Wojke, R.G.C. A288 (1990) 329

Koch, M., see Schefer, J. A288 (1990) 477
Komoto, T.T., see Kataria, S.K. A288 (1990) 585
Königer, M., see Masek, J. A288 (1990) 104
Koska, W., see Phinney, N. A288 (1990) 308
Kötz, U., see Möschen, J. A288 (1990) 180
Kozanecki, W., see Phinney, N. A288 (1990) 308
Kozma, P., see Damdinsuren, C. A288 (1990) 319
Kraner, H.W., see Beuville, E. A288 (1990) 68
Kraus, H., see Pröbst, F. A288 (1990) 125
Kreuger, R., see Duijn, J.H. A288 (1990) 486
Kreuger, R., see Duijn, J.H. A288 (1990) 493
Krischer, W., see Lone, S. A288 (1990) 507
Krivokhatsky, A.S., see Alexandrov, B.M. A288 (1990) 399
Krofcheck, D., G.M. Crawley, C. Djalali, S. Howden, C.A. Ogilvie, A. Vander Molen, G.D. Westfall, W.K. Wilson and R.S. Tickle, Automated analysis of CCD recorded nuclear collisions in a streamer chamber A288 (1990) 497
Krummenacher, F., C.C. Enz, M. Declercq, E. Vittoz, M. Campbell, E.H.M. Heijne, P. Jarron and G. Viertel, An experimental 10 MHz low power CMOS analog front-end for pixel detectors A288 (1990) 176
Krumrey, M. and E. Tegeler, Semiconductor photodiodes in the VUV: determination of layer thicknesses and design criteria for improved devices A288 (1990) 114
Kunin, A., see L3 Collaboration A288 (1990) 364

L3 Collaboration, A. Arefiev, T. Azemoon, H.S. Chen, G.M. Chen, Yu. Galaktionov, Yu. Kamyshkov, A. Kunin, P. Le Coultre, J. Lettry, J.B. Mills, V. Plyaskin, V. Shoutko, E. Shumilov, B. Spiess and J. Ulbricht, Analysis and simulation of hadronic showers in a uranium gas-sampling calorimeter A288 (1990) 364
Labarga, L., see Adolphsen, C. A288 (1990) 257
Lambrecht, A., see Masek, J. A288 (1990) 104
Lariccia, P., see Ansari, R. A288 (1990) 240
Lavin, M., see Dytlewski, N. A288 (1990) 641
Le Coultre, P., see L3 Collaboration A288 (1990) 364
Le Meur, J., see Bonin, B. A288 (1990) 379
Le Meur, J., see Bonin, B. A288 (1990) 389
Lee, A.T., see Young, B.A. A288 (1990) 119
Legros, P., see Antinori, F. A288 (1990) 82
Leiste, R., see Chilingarov, A.G. A288 (1990) 62
Lejeune, C., see Coste, Ph. A288 (1990) 517
Lemke, S., see Hebrank, F. A288 (1990) 541
Lettry, J., see L3 Collaboration A288 (1990) 364
Lewis, J., G.M. McPherson, M.C. Morrissey, J.C. Thompson and A.W. Tucker, A monolithic charge multiplexer with 0.5% accuracy A288 (1990) 197
Liberali, V., see Buttler, W. A288 (1990) 140
Lidén, F., HYSTRIX – A 4π plastic phoswhich array providing on-line channel selection for in-beam γ-ray spectroscopy A288 (1990) 455
Lin, F.C., see Hwang, C.S. A288 (1990) 324
Lindström, G., see Fretwurst, E. A288 (1990) 1
Linn, S.L., A method for fast electromagnetic shower simulation in the Geant Monte Carlo program A288 (1990) 598
Lintern, A.L., see Damerell, C.J.S. A288 (1990) 236
Lisowski, B., see Beuville, E. A288 (1990) 157
Lisowski, B., see Ansari, R. A288 (1990) 240
Litke, A., see Adolphsen, C. A288 (1990) 257
Liu, S.Y.R., see Barry, W. A288 (1990) 593
Ljuslin, C., see Lone, S. A288 (1990) 507
Loepfe, R., see Mittelholzer, M. A288 (1990) 110
Lohse, T., see Emma, P. A288 (1990) 313
Lombard, R.M., see Bonin, B. A288 (1990) 379
Lombard, R.M., see Bonin, B. A288 (1990) 389
Lone, S., R.K. Bock, Y. Ermolin, W. Krischer, C. Ljuslin, K. Zografos and A. Sandoval, Fine-grain parallel computer architectures in future triggers A288 (1990) 507
Longoni, A., M. Sampietro and L. Strüder, Instability of the behaviour of high resistivity silicon detectors due to the presence of oxide charges A288 (1990) 35
Longoni, A., see Rehak, P. A288 (1990) 168
Longoni, A., see Strüder, L. A288 (1990) 227

Lugol, J.C., see Bonin, B. A288 (1990) 379
Lugol, J.C., see Bonin, B. A288 (1990) 389
Lumb, D.H., Applications of charge coupled devices to X-ray astrophysics missions A288 (1990) 219
Lund, J.C. and F. Olschner, Simulation of charge transport in semiconductor radiation detectors A288 (1990) 31
Lüth, V., see Adolphsen, C. A288 (1990) 257
Lutz, G., see Kemmer, J. A288 (1990) 92
Lutz, G., see Buttler, W. A288 (1990) 140
Lutz, G., see Buttler, W. A288 (1990) 187
Lutz, G., see Strüder, L. A288 (1990) 227
Lützenkirchen, K., see Overbeck, M. A288 (1990) 413

Macdonald, E.W., see Davinson, T. A288 (1990) 245
Maisch, T., R. Günzler, M. Weiser, S. Kalbitzer, W. Welser and J. Kemmer, Ion-implanted Si pn-junction detectors with ultrathin windows A288 (1990) 19
Maissen, C., see Masek, J. A288 (1990) 104
Malik, R.J., see Ripamonti, G. A288 (1990) 99
Maloberti, F., see Buttler, W. A288 (1990) 140
Maltsev, E.I., see Barabash, L.S. A288 (1990) 375
Mandrillon, P., see Ostojic, R. A288 (1990) 339
Manfredi, P.F., see Buttler, W. A288 (1990) 140
Manfredi, P.F., see Strüder, L. A288 (1990) 227
Marioli, D., see Antinori, F. A288 (1990) 82
Markowitz, P., see Bonin, B. A288 (1990) 379
Markowitz, P., see Bonin, B. A288 (1990) 389
Martoff, C.J., see Young, B.A. A288 (1990) 119
Masek, J., C. Maissen, H. Zogg, W. Platz, H. Riedel, M. Königer, A. Lambrecht and M. Tacke, Photovoltaic lead-chalcogenide IR-sensor arrays on Si for thermal imaging applications A288 (1990) 104
Massam, T., see Beuville, E. A288 (1990) 68
Matthews, J., see Adolphsen, C. A288 (1990) 257
Mayer, B., see Bonin, B. A288 (1990) 379
Mayer, B., see Bonin, B. A288 (1990) 389
Mayer, R.E., J.R. Granada, V.H. Gillette and J. Dawidowski, High efficiency moderator for pulsed neutron diffraction A288 (1990) 467
McConchie, L., see Farrell, R. A288 (1990) 137
McDonald, A.B., see Coulter, K.P. A288 (1990) 463
McKemey, A., see Damerell, C.J.S. A288 (1990) 236
McMurray, W.R., K. Bharuth-Ram and D.G. Aschman, A particle spectrometer for angular distribution measurements from (n, p) and (n, d) reactions at 22 MeV A288 (1990) 421
McPherson, G.M., see Lewis, J. A288 (1990) 197
McVittie, J.P., see Young, B.A. A288 (1990) 119
Meier, M., see Strüder, L. A288 (1990) 227
Melchior, H., see Mittelholzer, M. A288 (1990) 110
Meroni, C., see Antinori, F. A288 (1990) 82
Mészáros, L.P., see Barabash, L.S. A288 (1990) 375
Mills, J.B., see L3 Collaboration A288 (1990) 364
Mingxiu, M., K.G. Stephens, B.J. Sealy and J.E. Mynard, The determination of the geometric parameters of the extraction system in an rf ion source A288 (1990) 303
Mittelholzer, M., R. Loepfe, A. Schaelin and H. Melchior, 20 ps (FWHM) GaAs photodiodes with transparent indium tin oxide Schottky gates A288 (1990) 110
Mizutani, K., see Amenomori, M. A288 (1990) 619
Morlet, M., see Bonin, B. A288 (1990) 379
Morlet, M., see Bonin, B. A288 (1990) 389
Morrissey, M.C., see Lewis, J. A288 (1990) 197
Möschen, J., A. Caldwell, L. Hervas, B. Hosticka, U. Kötz and B. Sippach, High-speed analog CMOS pipeline system A288 (1990) 180
Mouly, J.P., see Bonin, B. A288 (1990) 379
Mouly, J.P., see Bonin, B. A288 (1990) 389
Moy, L., see Squillante, M.R. A288 (1990) 79
Muehlner, D.J., see Ripamonti, G. A288 (1990) 99
Muller, F., see Antinori, F. A288 (1990) 82
Munday, D., see Beuville, E. A288 (1990) 68

Munday, D.J., see Ansari, R. A288 (1990) 240
Muratov, V.V., see Alexandrov, B.M. A288 (1990) 399
Mynard, J.E., see Mingxiu, M. A288 (1990) 303

Nakamura, M., see Tajima, H. A288 (1990) 536
Nakanishi, S., see Tajima, H. A288 (1990) 536
Nanjo, H., see Amenomori, M. A288 (1990) 619
Nedorezov, V.G., see Alexandrov, B.M. A288 (1990) 399
Neuhauser, B., see Young, B.A. A288 (1990) 119
Nishizawa, M., see Amenomori, M. A288 (1990) 619
Niwa, K., see Tajima, H. A288 (1990) 536

Oberlack, H., see Schoeneberg, U. A288 (1990) 191
Oelert, W., see Sefzick, T. A288 (1990) 571
Ogilvie, C.A., see Krofcheck, D. A288 (1990) 497
Oh, S., see Huang, Y. A288 (1990) 293
Ohnishi, M., see Amenomori, M. A288 (1990) 619
Ohta, I., see Amenomori, M. A288 (1990) 619
Olcese, A., see Antinori, F. A288 (1990) 82
Olschner, F., see Lund, J.C. A288 (1990) 31
Olschner, F., see Farrell, R. A288 (1990) 137
Orr, N.A., see Fifield, L.K. A288 (1990) 360
Osculati, B., see Antinori, F. A288 (1990) 82
Ostojic, R. and P. Mandrillon, On the transverse particle stability in highly spiraled magnetic structures A288 (1990) 339
Overbeck, M., A. Breskin, M. Brügger, R. Chechik, Z. Fraenkel, G. Herrmann, K. Lützenkirchen, S. Polikanov, N. Trautmann and Th. Wilpert, A heavy-ion identification system for the detection of rare events A288 (1990) 413
Owens, R.O., Statistical treatment of tagged photon experiments A288 (1990) 574

Pal, T., see Beuville, E. A288 (1990) 68
Pal, T., see Ansari, R. A288 (1990) 240
Parker, M.A., see Ansari, R. A288 (1990) 240
Parker, S., see Adolphsen, C. A288 (1990) 257
Parodi, R., see Fernandes, P. A288 (1990) 549
Passuello, D., see Bigongiari, A. A288 (1990) 529
Payne, A.G.D. and N.E. Booth, Tests of some prototype indium-loaded scintillators for solar neutrino detection A288 (1990) 632
Pedroni, R.S., see Saraf, S.K. A288 (1990) 451
Pein, U., see Fretwurst, E. A288 (1990) 1
Pepe, M., see Ansari, R. A288 (1990) 240
Perdrisat, C.F., see Bonin, B. A288 (1990) 379
Perdrisat, C.F., see Bonin, B. A288 (1990) 389
Peterreins, Th., see Pröbst, F. A288 (1990) 125
Petukhov, Yu.P., see Barabash, L.S. A288 (1990) 375
Phillips, D., see Damerell, C.J.S. A288 (1990) 236
Phinney, N., P. Bambade, W. Kozanecki and W. Koska, An automated focal point positioning and emittance measurement procedure for the interaction point of the SLC A288 (1990) 308
Pimenov, A.G., see Barabash, L.S. A288 (1990) 375
Platz, W., see Masek, J. A288 (1990) 104
Plyaskin, V., see L3 Collaboration A288 (1990) 364
Polikanov, S., see Overbeck, M. A288 (1990) 413
Pollari, K., see Ellilä, M. A288 (1990) 267
Prechtel, U., see Kemmer, J. A288 (1990) 92
Prechtel, U., see Rehak, P. A288 (1990) 168
Prechtel, U., see Strüder, L. A288 (1990) 227
Predehl, P., see Strüder, L. A288 (1990) 227
Pröbst, F., Th. Peterreins, F. Von Feilitzsch and H. Kraus, Position sensitive detection of nuclear radiation mediated by non equilibrium phonons at low temperatures A288 (1990) 125

Rachko, Z.A., see Buzulutskov, A.F. A288 (1990) 659
Radeka, V., see Rehak, P. A288 (1990) 168
Radeka, V., see Strüder, L. A288 (1990) 227
Ramamurthy, V.S., see Kataria, S.K. A288 (1990) 585

Re, V., see Buttler, W. A288 (1990) 140
Redaelli, N., see Antinori, F. A288 (1990) 82
Rehak, P., S. Rescia, V. Radeka, E. Gatti, A. Longoni, M. Sampietro, G. Bertuccio, P. Holl, L. Strüder, J. Kemmer, U. Prechtel and T. Ziemann, Feedback charge amplifier integrated on the detector wafer A288 (1990) 168
Rehak, P., see Strüder, L. A288 (1990) 227
Reich, H. and H.J. Jänsch, Nuclear spin polarized alkali beams (Na, Li): optical pumping with electro-optically modulated laser beam A288 (1990) 349
Reininger, R. and V. Saile, A soft X-ray grating monochromator for undulator radiation A288 (1990) 343
Reppin, C., see Strüder, L. A288 (1990) 227
Rescia, S., see Rehak, P. A288 (1990) 168
Rescia, S., see Strüder, L. A288 (1990) 227
Riedel, H., see Masek, J. A288 (1990) 104
Riley, S.P., An interrupt-driven data collection system for MS-DOS personal computers A288 (1990) 525
Ripamonti, G., F. Capasso, A.L. Hutchinson, D.J. Muehlner, J.F. Walker and R.J. Malik, Realization of a staircase photodiode: towards a solid-state photomultiplier A288 (1990) 99
Roe, S., see Avset, B.S. A288 (1990) 131
Rollwagen, M., see Fretwurst, E. A288 (1990) 1
Romanov, L.V., see Chilingarov, A.G. A288 (1990) 62
Rossi, L., see Antinori, F. A288 (1990) 82
Rowe, W.A., see Sadrozinski, H.F.-W. A288 (1990) 76
Ryzhov, V.N., see Golovatjuk, V.M. A288 (1990) 254

Saavedra, O., see Bigongiari, A. A288 (1990) 529
Sadrozinski, H.F.-W., W.A. Rowe, A. Seiden, E. Spencer, C.M. Hoffman, D. Holtkamp, W.W. Kinnison, W.F. Sommer and H.J. Ziock, Test of radiation hardness of CMOS transistors under neutron irradiation A288 (1990) 76
Saile, V., see Reininger, R. A288 (1990) 343
Saito, To., see Amenomori, M. A288 (1990) 619
Sakata, M., see Amenomori, M. A288 (1990) 619
Salvo, C., see Fernandes, P. A288 (1990) 549
Sampietro, M., see Longoni, A. A288 (1990) 35
Sampietro, M., see Rehak, P. A288 (1990) 168
Sampietro, M., see Strüder, L. A288 (1990) 227
Sandoval, A., see Lone, S. A288 (1990) 507
Sandukovsky, V.G., see Barabash, L.S. A288 (1990) 375
Saraf, S.K., N. Al-Niemi, C.E. Brient, S.M. Grimes and R.S. Pedroni, Determination of the light response of BC-404 plastic scintillator for ^{3}He and ^{4}He with energies between 3 and 13 MeV A288 (1990) 451
Scampoli, P., see Ansari, R. A288 (1990) 240
Schaelin, A., see Mittelholzer, M. A288 (1990) 110
Schatz, H., see Fretwurst, E. A288 (1990) 1
Schefer, J., P. Fischer, H. Heer, A. Isacson, M. Koch and R. Thut, A versatile double-axis multicounter neutron powder diffractometer A288 (1990) 477
Schempp, A., see Wojke, R.G.C. A288 (1990) 329
Schoeneberg, U., B.J. Hosticka, J. Fent, H. Oberlack and G. Zimmer, A CMOS readout system for very large detector capacitances A288 (1990) 191
Schoenmaekers, W., see Verplancke, J. A288 (1990) 287
Schönbacher, H. and F. Coninckx, Doses to the CERN 450-GeV super proton synchrotron and an estimate of radiation damage A288 (1990) 612
Schooneveld, E.M., see Wouters, S.E. A288 (1990) 44
Schooneveld, E.M., C.W.E. Van Eijk, R.W. Hollander, S.A. Audet and S.E. Wouters, A silicon strip detector for β-radiochromatography A288 (1990) 250
Schröder, W.U., see Tõke, J. A288 (1990) 406
Schuster, K., see Kemmer, J. A288 (1990) 92
Schuster, K.F., see Strüder, L. A288 (1990) 227
Schwarz, A., see Strüder, L. A288 (1990) 227
Schwarz, A., see Adolphsen, C. A288 (1990) 257
Sealy, B.J., see Mingxiu, M. A288 (1990) 303
Sefzick, T., K. Kilian, W. Oelert and G. Wienands, A system for simulation of scintillator light signals A288 (1990) 571
Seiden, A., see Sadrozinski, H.F.-W. A288 (1990) 76
Sernicki, J., First Townsend coefficient of organic vapour in avalanche counters A288 (1990) 555
Shah, K.S., see Squillante, M.R. A288 (1990) 79
Shibata, M., see Amenomori, M. A288 (1990) 619

Shima, M., see Amenomori, M. A288 (1990) 619
Shirai, T., see Amenomori, M. A288 (1990) 619
Shotter, A.C., see Thomas, S.L. A288 (1990) 212
Shotter, A.C., see Davinson, T. A288 (1990) 245
Shoutko, V., see L3 Collaboration A288 (1990) 364
Shumilov, E., see L3 Collaboration A288 (1990) 364
Simak, V., see Ansari, R. A288 (1990) 240
Sinev, N.B., see Bashindzhagyan, G.L. A288 (1990) 265
Singh, S., see Beuville, E. A288 (1990) 157
Singh, S., see Dytlewski, N. A288 (1990) 641
Singh, S.L., see Ansari, R. A288 (1990) 240
Sippach, B., see Möschen, J. A288 (1990) 180
Sloof, G.W., see Duijn, J.H. A288 (1990) 486
Sloof, G.W., see Duijn, J.H. A288 (1990) 493
Sommer, W.F., see Sadrozinski, H.F.-W. A288 (1990) 76
Spassov, V., see Sueva, D. A288 (1990) 460
Spataro, B., see Fernandes, P. A288 (1990) 549
Spencer, E., see Sadrozinski, H.F.-W. A288 (1990) 76
Speziali, V., see Buttler, W. A288 (1990) 140
Spiess, B., see L3 Collaboration A288 (1990) 364
Springham, S.V., see Davinson, T. A288 (1990) 245
Squillante, M.R., K.S. Shah and L. Moy, Stabilization of HgI_2 X-ray detectors A288 (1990) 79
Squillante, M.R., see Farrell, R. A288 (1990) 137
Stab, L., Thin epitaxial silicon detectors A288 (1990) 24
Staubert, A., see Strüder, L. A288 (1990) 227
Stephens, A.J., see Davinson, T. A288 (1990) 245
Stephens, K.G., see Mingxiu, M. A288 (1990) 303
Sterzik, M., see Kemmer, J. A288 (1990) 92
Sterzik, M., see Strüder, L. A288 (1990) 227
Strüder, L., see Longoni, A. A288 (1990) 35
Strüder, L., see Kemmer, J. A288 (1990) 92
Strüder, L., see Rehak, P. A288 (1990) 168
Strüder, L., H. Bräuninger, M. Meier, P. Predehl, C. Reppin, M. Sterzik, J. Trümper, P. Cattaneo, D. Hauff, G. Lutz, K.F. Schuster, A. Schwarz, E. Kenziorra, A. Staubert, E. Gatti, A. Longoni, M. Sampietro, V. Radeka, P. Rehak, S. Rescia, P.F. Manfredi, W. Buttler, P. Holl, J. Kemmer, U. Prechtel and T. Ziemann, The MPI/AIT X-ray imager (MAXI) – High speed pn CCDs for X-ray detection A288 (1990) 227
Su, D., see Damerell, C.J.S. A288 (1990) 236
Sudov, A.S., see Alexandrov, B.M. A288 (1990) 399
Sueva, D., V. Spassov, N. Chikov and E.I. Vapirev, Manufacturing avalanche diodes for detection of low energy gamma- and X-rays A288 (1990) 460
Sugimoto, H., see Amenomori, M. A288 (1990) 619
Szymanski, J.J., see Coulter, K.P. A288 (1990) 463

Tacke, M., see Masek, J. A288 (1990) 104
Taira, K., see Amenomori, M. A288 (1990) 619
Tajima, H., M. Nakamura, S. Nakanishi, K. Niwa, H. Tanaka and K. Yamamoto, Utilization of MOS gate structure for capacitive charge division readout of silicon strip detector A288 (1990) 536
Tanaka, H., see Tajima, H. A288 (1990) 536
Tateyama, N., see Amenomori, M. A288 (1990) 619
Tegeler, E., see Krumrey, M. A288 (1990) 114
Thomae, R.W., see Wojke, R.G.C. A288 (1990) 329
Thomas, S.L., T. Davinson and A.C. Shotter, A modular amplifier system for the readout of silicon strip detectors A288 (1990) 212
Thomas, S.L., see Davinson, T. A288 (1990) 245
Thompson, J.C., see Lewis, J. A288 (1990) 197
Thomsen, P., see Fretwurst, E. A288 (1990) 1
Thut, R., see Schefer, J. A288 (1990) 477
Tickle, R.S., see Krofcheck, D. A288 (1990) 497
Töke, J., W.U. Schröder and J.R. Huizenga, Aspects of kinematical coincidence measurements of excitation energy division in damped reactions A288 (1990) 406
Tolstov, K.D., see Damdinsuren, C. A288 (1990) 319

Tomasi-Gustafsson, E., see Bonin, B. A288 (1990) 379
Tomasi-Gustafsson, E., see Bonin, B. A288 (1990) 389
Torii, S., see Amenomori, M. A288 (1990) 619
Torretta, D., see Antinori, F. A288 (1990) 82
Trautmann, N., see Overbeck, M. A288 (1990) 413
Trinchero, G.C., see Bigongiari, A. A288 (1990) 529
Trümper, J., see Strüder, L. A288 (1990) 227
Trützschler, K., see Chilingarov, A.G. A288 (1990) 62
Tsyganov, E.N., see Golovatjuk, V.M. A288 (1990) 254
Tucker, A.W., see Lewis, J. A288 (1990) 197
Turala, M., see Adolphsen, C. A288 (1990) 257
Turala, M., Demands of future high energy physics experiments A288 (1990) 290
Turchanovich, L.K., see Buzulutskov, A.F. A288 (1990) 659
Tyapkin, I.A., see Golovatjuk, V.M. A288 (1990) 254

Ulbricht, J., see L3 Collaboration A288 (1990) 364
Urbanus, W.H., see Wojke, R.G.C. A288 (1990) 329

Valbis, V.J., see Buzulutskov, A.F. A288 (1990) 659
Van Amersfoort, P.W., see Wojke, R.G.C. A288 (1990) 329
Van de Wiele, J., see Bonin, B. A288 (1990) 379
Van de Wiele, J., see Bonin, B. A288 (1990) 389
Van Eijk, C.W.E., see Schooneveld, E.M. A288 (1990) 250
Van Eijk, C.W.E., see Duijn, J.H. A288 (1990) 486
Van Eijk, C.W.E., see Duijn, J.H. A288 (1990) 493
Vander Molen, A., see Krofcheck, D. A288 (1990) 497
Vanderpuye, K., see Farrell, R. A288 (1990) 137
Vanstraelen, G., K. De Backker, I. Debusschere, C. Claeys and G. Declerck, Generation lifetime monitoring on high resistivity silicon using gated diodes A288 (1990) 48
Vapirev, E.I., see Sueva, D. A288 (1990) 460
Vasilchenko, V.G., see Buzulutskov, A.F. A288 (1990) 659
Vejcik, S., see Adolphsen, C. A288 (1990) 257
Verplancke, J., P. Burger and W. Schoenmaekers, Canberra Semiconductor, an industrial partner for physics reseach A288 (1990) 287
Viertel, G., see Krummenacher, F. A288 (1990) 176
Vincent, J.S., see D'Auria, J.M. A288 (1990) 354
Vittoz, E., see Krummenacher, F. A288 (1990) 176
Vodopianov, A.S., see Golovatjuk, V.M. A288 (1990) 254
Von Feilitzsch, F., see Pröbst, F. A288 (1990) 125
Voronin, A.G., see Bashindzhagyan, G.L. A288 (1990) 265

Walker, J.F., see Ripamonti, G. A288 (1990) 99
Wang, C. and D. Xian, RADID: a software for insertion device radiation calculation A288 (1990) 649
Watts, S.J., see Damerell, C.J.S. A288 (1990) 236
Weis, T., see Wojke, R.G.C. A288 (1990) 329
Weiser, M., see Maisch, T. A288 (1990) 19
Wells, P.S., see Ansari, R. A288 (1990) 240
Welser, W., see Maisch, T. A288 (1990) 19
Westfall, G.D., see Krofcheck, D. A288 (1990) 497
Wheadon, R., see Avset, B.S. A288 (1990) 131
Wickens, F.J., see Damerell, C.J.S. A288 (1990) 236
Wienands, G., see Sefzick, T. A288 (1990) 571
Willis, A., see Bonin, B. A288 (1990) 379
Willis, A., see Bonin, B. A288 (1990) 389
Wilpert, Th., see Overbeck, M. A288 (1990) 413
Wilson, O.J., Monte Carlo counting efficiencies for measuring Rn in a charcoal canister A288 (1990) 603
Wilson, W.K., see Krofcheck, D. A288 (1990) 497
Wojke, R.G.C., W.H. Urbanus, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort, Simultaneous bunching of different ion species in a periodic focusing transport channel A288 (1990) 329
Wouters, S.E., S.A. Audet, M.H. Kim and E.M. Schooneveld, Integrating transistors on high-ohmic silicon A288 (1990) 44
Wouters, S.E., see Schooneveld, E.M. A288 (1990) 250

Wright, A.G., see Fraser-Mitchell, J. A288 (1990) 429
Wu, M.W., see Hwang, C.S. A288 (1990) 324
Wunstorf, R., see Fretwurst, E. A288 (1990) 1

Xian, D., see Wang, C. A288 (1990) 649

Yamamoto, K., see Tajima, H. A288 (1990) 536
Yamamoto, Y., see Amenomori, M. A288 (1990) 619
Yang, M.S., see Hwang, C.S. A288 (1990) 324
Yonnet, J., see Bonin, B. A288 (1990) 379
Yonnet, J., see Bonin, B. A288 (1990) 389
Yoon, M., see Huang, Y. A288 (1990) 293
Young, B.A., B. Cabrera, A.T. Lee, C.J. Martoff, B. Neuhauser and J.P. McVittie, Phonon-mediated detection of X-rays in silicon crystals using superconducting transition edge phonon sensors A288 (1990) 119
Yuan, V., see Coulter, K.P. A288 (1990) 463
Yuda, T., see Amenomori, M. A288 (1990) 619

Zaccardelli, C., see Adolphsen, C. A288 (1990) 257
Zapevalov, V.A., see Alexandrov, B.M. A288 (1990) 399
Ziemann, T., see Kemmer, J. A288 (1990) 92
Ziemann, T., see Rehak, P. A288 (1990) 168
Ziemann, T., see Strüder, L. A288 (1990) 227
Zimmer, G., see Schoeneberg, U. A288 (1990) 191
Ziock, H.J., see Sadrozinski, H.F.-W. A288 (1990) 76
Zogg, H., see Masek, J. A288 (1990) 104
Zografos, K., see Lone, S. A288 (1990) 507

Nuclear Instruments and Methods in Physics Research A288 (1990) 677–681
North-Holland

SUBJECT INDEX

Accelerators, Beam Handling and Targets

A survey of the beam extraction from the Princeton AVF cyclotron, Huang, Y., M. Yoon and S. Oh A288 (1990) 293
The determination of the geometric parameters of the extraction system in an rf ion source, Mingxiu, M., K.G. Stephens, B.J. Sealy and J.E. Mynard A288 (1990) 303
An automated focal point positioning and emittance measurement procedure for the interaction point of the SLC, Phinney, N., P. Bambade, W. Kozanecki and W. Koska A288 (1990) 308
Online monitoring of dispersion functions and transfer matrices at the SLC, Emma, P., T.H. Fieguth and T. Lohse A288 (1990) 313
Monitoring system for relativistic particles and nuclei, Damdinsuren, C., V.M. Dyachenko, P. Kozma and K.D. Tolstov A288 (1990) 319
Experimental study of beam emittance and brightness from a high-power field emission electron gun, Hwang, C.S., M.S. Yang, F.C. Lin, M.W. Wu and W.S. Hou A288 (1990) 324
Simultaneous bunching of different ion species in a periodic focusing transport channel, Wojke, R.G.C., W.H. Urbanus, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort A288 (1990) 329
On the transverse particle stability in highly spiraled magnetic structures, Ostojic, R. and P. Mandrillon A288 (1990) 339
A soft X-ray grating monochromator for undulator radiation, Reininger, R. and V. Saile A288 (1990) 343
Nuclear spin polarized alkali beams (Na, Li): optical pumping with electro-optically modulated laser beam, Reich, H. and H.J. Jänsch A288 (1990) 349
Studies related to the production of an isotopically pure ^{22}Na radioactive target, D'Auria, J.M., M. Dombsky, L. Buchmann and J.S. Vincent A288 (1990) 354
The production of isotopic ^{36}S targets by ion implantation into carbon foils, Fifield, L.K. and N.A. Orr A288 (1990) 360

Instruments and Methods for High Energy Physics

Proceedings of the Fifth European Symposium on Semiconductor Detectors (Munich, FRG, 21–23 February 1989)

Section I. Detector technology

Silicon detector developments for calorimetry: technology and radiation damage, Fretwurst, E., H. Herdan, G. Lindström, U. Pein, M. Rollwagen, H. Schatz, P. Thomsen and R. Wunstorf A288 (1990) 1
Photomask technique for fabricating high purity germanium strip detectors, Gutknecht, D. A288 (1990) 13
Ion-implanted Si pn-junction detectors with ultrathin windows, Maisch, T., R. Günzler, M. Weiser, S. Kalbitzer, W. Welser and J. Kemmer A288 (1990) 19
Thin epitaxial silicon detectors, Stab, L. A288 (1990) 24
Simulation of charge transport in semiconductor radiation detectors, Lund, J.C. and F. Olschner A288 (1990) 31
Instability of the behaviour of high resistivity silicon detectors due to the presence of oxide charges, Longoni, A., M. Sampietro and L. Strüder A288 (1990) 35
Integrating transistors on high-ohmic silicon, Wouters, S.E., S.A. Audet, M.H. Kim and E.M. Schooneveld A288 (1990) 44
Generation lifetime monitoring on high resistivity silicon using gated diodes, Vanstraelen, G., K. De Backker, I. Debusschere, C. Claeys and G. Declerck A288 (1990) 48
Overview of radiation hardening for semiconductor detectors, Dawes Jr., W.R. A288 (1990) 54
Silicon microstrip detector radiation damage by 1.5 MeV electrons and synchrotron radiation, Chilingarov, A.G., L.V. Romanov, R. Leiste and K. Trützschler A288 (1990) 62
Measurements of degradation of silicon detectors and electronics in various radiation environments, Beuville, E., P. Cenci, A. Federspiel, C. Gössling, E.H.M. Heijne, P. Jarron, H.W. Kraner, T. Massam, D. Munday and T. Pal A288 (1990) 68
Test of radiation hardness of CMOS transistors under neutron irradiation, Sadrozinski, H.F.-W., W.A. Rowe, A. Seiden, E. Spencer, C.M. Hoffman, D. Holtkamp, W.W. Kinnison, W.F. Sommer and H.J. Ziock A288 (1990) 76
Stabilization of HgI_2 X-ray detectors, Squillante, M.R., K.S. Shah and L. Moy A288 (1990) 79

0168-9002/90/$03.50 © Elsevier Science Publishers B.V.
(North-Holland)

Section II. New detector types

Results on a 10 micron pitch detector with individual strip readout, Antinori, F., D. Barberis, W. Beusch, M. Dameri, J.P. Dufey, B.R. French, A. Forino, E.H.M. Heijne, A. Jacholkowski, P. Jarron, P. Legros, D. Marioli, C. Meroni, F. Muller, A. Olcese, B. Osculati, N. Redaelli, L. Rossi and D. Torretta A288 (1990) 82
The bipolar silicon microstrip detector: a proposal for a novel precision tracking device, Horisberger, R. A288 (1990) 87
Experimental confirmation of a new semiconductor detector principle, Kemmer, J., G. Lutz, U. Prechtel, K. Schuster, M. Sterzik, L. Strüder and T. Ziemann A288 (1990) 92
Realization of a staircase photodiode: towards a solid-state photomultiplier, Ripamonti, G., F. Capasso, A.L. Hutchinson, D.J. Muehlner, J.F. Walker and R.J. Malik A288 (1990) 99
Photovoltaic lead-chalcogenide IR-sensor arrays on Si for thermal imaging applications, Masek, J., C. Maissen, H. Zogg, W. Platz, H. Riedel, M. Königer, A. Lambrecht and M. Tacke A288 (1990) 104
20 ps (FWHM) GaAs photodiodes with transparent indium tin oxide Schottky gates, Mittelholzer, M., R. Loepfe, A. Schaelin and H. Melchior A288 (1990) 110
Semiconductor photodiodes in the VUV: determination of layer thicknesses and design criteria for improved devices, Krumrey, M. and E. Tegeler A288 (1990) 114
Phonon-mediated detection of X-rays in silicon crystals using superconducting transition edge phonon sensors, Young, B.A., B. Cabrera, A.T. Lee, C.J. Martoff, B. Neuhauser and J.P. McVittie A288 (1990) 119
Position sensitive detection of nuclear radiation mediated by non equilibrium phonons at low temperatures, Pröbst, F., Th. Peterreins, F. Von Feilitzsch and H. Kraus A288 (1990) 125
Silicon drift photodiodes, Avset, B.S., J. Ellison, L. Evensen, G. Hall, T-E. Hansen, S. Roe and R. Wheadon ... A288 (1990) 131
Large area silicon avalanche photodiodes for scintillation detectors, Farrell, R., F. Olschner, E. Frederick, L. McConchie, K. Vanderpuye, M.R. Squillante and G. Entine A288 (1990) 137

Section III. Integrated electronics

Evolution in the criteria that underlie the design of a monolithic preamplifier system for microstrip detectors, Buttler, W., G. Lutz, V. Liberali, F. Maloberti, P.F. Manfredi, V. Re and V. Speziali A288 (1990) 140
Improvements in low frequency noise of MOSFETs for front end amplifiers, Kandiah, K. A288 (1990) 150
AMPLEX, a low-noise, low-power analog CMOS signal processor for multi-element silicon particle detectors, Beuville, E., K. Borer, E. Chesi, E.H.M. Heijne, P. Jarron, B. Lisowski and S. Singh A288 (1990) 157
Feedback charge amplifier integrated on the detector wafer, Rehak, P., S. Rescia, V. Radeka, E. Gatti, A. Longoni, M. Sampietro, G. Bertuccio, P. Holl, L. Strüder, J. Kemmer, U. Prechtel and T. Ziemann A288 (1990) 168
An experimental 10 MHz low power CMOS analog front-end for pixel detectors, Krummenacher, F., C.C. Enz, M. Declercq, E. Vittoz, M. Campbell, E.H.M. Heijne, P. Jarron and G. Viertel A288 (1990) 176
High-speed analog CMOS pipeline system, Möschen, J., A. Caldwell, L. Hervas, B. Hosticka, U. Kötz and B. Sippach A288 (1990) 180
Noise filtering for readout electronics, Buttler, W., B.J. Hosticka and G. Lutz A288 (1990) 187
A CMOS readout system for very large detector capacitances, Schoeneberg, U., B.J. Hosticka, J. Fent, H. Oberlack and G. Zimmer A288 (1990) 191
A monolithic charge multiplexer with 0.5% accuracy, Lewis, J., G.M. McPherson, M.C. Morrissey, J.C. Thompson and A.W. Tucker A288 (1990) 197
The time slice system, DeWitt, J. A288 (1990) 209
A modular amplifier system for the readout of silicon strip detectors, Thomas, S.L., T. Davinson and A.C. Shotter A288 (1990) 212

Section IV. New applications

Applications of charge coupled devices to X-ray astrophysics missions, Lumb, D.H. A288 (1990) 219
The MPI/AIT X-ray imager (MAXI) – High speed pn CCDs for X-ray detection, Strüder, L., H. Bräuninger, M. Meier, P. Predehl, C. Reppin, M. Sterzik, J. Trümper, P. Cattaneo, D. Hauff, G. Lutz, K.F. Schuster, A. Schwarz, E. Kenziorra, A. Staubert, E. Gatti, A. Longoni, M. Sampietro, V. Radeka, P. Rehak, S. Rescia, P.F. Manfredi, W. Buttler, P. Holl, J. Kemmer, U. Prechtel and T. Ziemann A288 (1990) 227
A CCD-based vertex detector for SLD, Damerell, C.J.S., R.L. English, A.R. Gillman, A.L. Lintern, D. Phillips, D. Su, F.J. Wickens, G. Agnew, P. Clarke, S. Hedges, A. McKemey and S.J. Watts A288 (1990) 236
Successful operation of a new Si-pad detector with ASIC readout at the CERN $\bar{p}p$-collider, Ansari, R., E. Beuville, K. Borer, P. Cenci, A.G. Clark, A. Federspiel, O. Gildemeister, C. Gössling, K. Hara, E.H.M. Heijne, P. Jarron, P. Lariccia, B. Lisowski, D.J. Munday, T. Pal, M.A. Parker, M. Pepe, P. Scampoli, V. Simak, S.L. Singh and P.S. Wells A288 (1990) 240
Development of a silicon strip detector array for nuclear structure physics, Davinson, T., A.C. Shotter, E.W. Macdonald, S.V. Springham, P. Jobanputra, A.J. Stephens and S.L. Thomas A288 (1990) 245
A silicon strip detector for β-radiochromatography, Schooneveld, E.M., C.W.E. Van Eijk, R.W. Hollander, S.A. Audet and S.E. Wouters A288 (1990) 250

Basic parameters of the UCD microvertex detector, Golovatjuk, V.M., Z. Guzik, S.V. Kashigin, E.A. Khlynov, V.N. Ryzhov, E.N. Tsyganov, I.A. Tyapkin and A.S. Vodopianov A288 (1990) 254
An alignment method for the MARK II silicon strip vertex detector using an X-ray beam, Adolphsen, C., G. Gratta, L. Labarga, A. Litke, A. Schwarz, M. Turala, C. Zaccardelli, A. Breakstone, S. Parker, B. Barnett, C. Boswell, P. Dauncey, D. Drewer, J. Matthews, S. Vejcik, R. Jacobsen and V. Lüth A288 (1990) 257
Proposal for a uranium–silicon precision calorimeter for the UNK 6 TeV hadron collider, Bashindzhagyan, G.L., P.F. Ermolov, N.B. Sinev and A.G. Voronin A288 (1990) 265
A room-temperature CCD imaging system for the detection of beta-emitting tracers, Ellilä, M. and K. Pollari . . A288 (1990) 267

Section V. Industrial production

High resistivity silicon for detector applications, Dreier, P. A288 (1990) 272
Intertechnique capabilities in detector fabrication, Henck, R. A288 (1990) 278
Present and future developments of Si detectors at MBB, Kemmer, J. A288 (1990) 282
Canberra Semiconductor, an industrial partner for physics reseach, Verplancke, J., P. Burger and W. Schoenmaekers A288 (1990) 287
Demands of future high energy physics experiments, Turala, M. A288 (1990) 290

Analysis and simulation of hadronic showers in a uranium gas-sampling calorimeter, L3 Collaboration, A. Arefiev, T. Azemoon, H.S. Chen, G.M. Chen, Yu. Galaktionov, Yu. Kamyshkov, A. Kunin, P. Le Coultre, J. Lettry, J.B. Mills, V. Plyaskin, V. Shoutko, E. Shumilov, B. Spiess and J. Ulbricht A288 (1990) 364
Semiconductor microstrip detector with a resistive layer, Barabash, L.S., E. Belcarz, Yu.B. Gurov, E.I. Maltsev, L.P. Mészáros, Yu.P. Petukhov, A.G. Pimenov and V.G. Sandukovsky A288 (1990) 375
Measurement of the inclusive p–C analyzing power and cross section in the 1 GeV region and calibration of the new polarimeter POMME, Bonin, B., A. Boudard, H. Fanet, R.W. Fergerson, M. Garçon, C. Giorgetti, J. Habault, J. Le Meur, R.M. Lombard, J.C. Lugol, B. Mayer, J.P. Mouly, E. Tomasi-Gustafsson, J.C. Duchazeaubeneix, J. Yonnet, M. Morlet, J. Van de Wiele, A. Willis, G. Greeniaus, G. Gaillard, P. Markowitz, C.F. Perdrisat, R. Abegg and D.A. Hutcheon A288 (1990) 379
POMME: a medium energy deuteron polarimeter based on semi-inclusive d-carbon scattering, Bonin, B., A. Boudard, H. Fanet, R.W. Fergerson, M. Garçon, C. Giorgetti, J. Habault, J. Le Meur, R.M. Lombard, J.C. Lugol, B. Mayer, J.P. Mouly, E. Tomasi-Gustafsson, J.C. Duchazeaubeneix, J. Yonnet, M. Morlet, J. Van de Wiele, A. Willis, G. Greeniaus, G. Gaillard, P. Markowitz, C.F. Perdrisat, R. Abegg and D.A. Hutcheon . . . A288 (1990) 389
A nuclear fragment detector for experiments with backscattered laser photons, Alexandrov, B.M., D.I. Ivanov, G.Ya. Kezerashvili, A.S. Krivokhatsky, V.V. Muratov, V.G. Nedorezov, A.S. Sudov and V.A. Zapevalov . . . A288 (1990) 399

Instruments and Methods for Nuclear Spectroscopy

Aspects of kinematical coincidence measurements of excitation energy division in damped reactions, Tõke, J., W.U. Schröder and J.R. Huizenga A288 (1990) 406
A heavy-ion identification system for the detection of rare events, Overbeck, M., A. Breskin, M. Brügger, R. Chechik, Z. Fraenkel, G. Herrmann, K. Lützenkirchen, S. Polikanov, N. Trautmann and Th. Wilpert A288 (1990) 413
A particle spectrometer for angular distribution measurements from (n, p) and (n, d) reactions at 22 MeV, McMurray, W.R., K. Bharuth-Ram and D.G. Aschman A288 (1990) 421
Contribution of photocathode nonuniformity to energy resolution in NaI(Tl) scintillation detectors, Fraser-Mitchell, J. and A.G. Wright A288 (1990) 429
The influence of inhomogeneities in materials properties in silicon radiation detectors, Henari, F.Z., E.C. Finch and C.F.G. Delaney A288 (1990) 439
Determination of the light response of BC-404 plastic scintillator for ^{3}He and ^{4}He with energies between 3 and 13 MeV, Saraf, S.K., N. Al-Niemi, C.E. Brient, S.M. Grimes and R.S. Pedroni A288 (1990) 451
HYSTRIX – A 4π plastic phoswhich array providing on-line channel selection for in-beam γ-ray spectroscopy, Lidén, F. A288 (1990) 455
Manufacturing avalanche diodes for detection of low energy gamma- and X-rays, Sueva, D., V. Spassov, N. Chikov and E.I. Vapirev A288 (1990) 460
Neutron polarization with a polarized ^{3}He spin filter, Coulter, K.P., T.E. Chupp, A.B. McDonald, C.D. Bowman, J.D. Bowman, J.J. Szymanski, V. Yuan, G.D. Cates, D.R. Benton and E.D. Earle A288 (1990) 463
High efficiency moderator for pulsed neutron diffraction, Mayer, R.E., J.R. Granada, V.H. Gillette and J. Dawidowski A288 (1990) 467
A versatile double-axis multicounter neutron powder diffractometer, Schefer, J., P. Fischer, H. Heer, A. Isacson, M. Koch and R. Thut A288 (1990) 477

Investigation of the crystal scintillations in the VUV region (*Letter to the Editor*), Buzulutskov, A.F., L.K. Turchanovich, V.G. Vasilchenko, Y.L. Jansons, Z.A. Rachko, V.J. Valbis and N.M. Khaidukov A288 (1990) 659

Computer Automated Measurement and Control

A hardware readout system for a curved one dimensional position sensitive proportional counter. I. Electronics, Duijn, J.H., C.W.E. Van Eijk, R.W. Hollander, R. Kreuger and G.W. Sloof A288 (1990) 486
A hardware readout system for a curved one dimensional position sensitive proportional counter. II. Software correction of recorded spectra, Duijn, J.H., C.W.E. Van Eijk, R.W. Hollander, R. Kreuger and G.W. Sloof .. A288 (1990) 493
Automated analysis of CCD recorded nuclear collisions in a streamer chamber, Krofcheck, D., G.M. Crawley, C. Djalali, S. Howden, C.A. Ogilvie, A. Vander Molen, G.D. Westfall, W.K. Wilson and R.S. Tickle A288 (1990) 497
Fine-grain parallel computer architectures in future triggers, Lone, S., R.K. Bock, Y. Ermolin, W. Krischer, C. Ljuslin, K. Zografos and A. Sandoval A288 (1990) 507
Automatisation d'une source d'ions de type SIRE, Coste, Ph., J. Aubert, J.P. Gilles et C. Lejeune A288 (1990) 517
An interrupt-driven data collection system for MS-DOS personal computers, Riley, S.P. A288 (1990) 525
High modularity fast charge–time digitizer in neutrino burst detection, Bigongiari, A., W. Fulgione, D. Passuello, O. Saavedra and G.C. Trinchero A288 (1990) 529

Nuclear Electronics

Utilization of MOS gate structure for capacitive charge division readout of silicon strip detector, Tajima, H., M. Nakamura, S. Nakanishi, K. Niwa, H. Tanaka and K. Yamamoto A288 (1990) 536
Nb–AlO_x–Nb tunnel junctions as detectors for ionizing radiation, Hebrank, F., S. Lemke, R.P. Huebener and R. Gross A288 (1990) 541
The design of TE storage cavities for a rf pulse compressor system, Fernandes, P., R. Parodi, C. Salvo and B. Spataro A288 (1990) 549
First Townsend coefficient of organic vapour in avalanche counters, Sernicki, J. A288 (1990) 555
A system for simulation of scintillator light signals, Sefzick, T., K. Kilian, W. Oelert and G. Wienands A288 (1990) 571

Numerical and Data Analysis

Statistical treatment of tagged photon experiments, Owens, R.O. A288 (1990) 574
Shell-dependent level densities in nuclear reaction codes, Kataria, S.K., V.S. Ramamurthy, M. Blann and T.T. Komoto A288 (1990) 585
The distribution of emergent flight path lengths from homogeneous spheres, Croft, S. A288 (1990) 589
Characteristic impedance and loss data for a common stripline pickup geometry, Barry, W. and S.Y.R. Liu A288 (1990) 593
A method for fast electromagnetic shower simulation in the Geant Monte Carlo program, Linn, S.L. A288 (1990) 598
Monte Carlo counting efficiencies for measuring Rn in a charcoal canister, Wilson, O.J. A288 (1990) 603

Dosimetry, Space Radiation and Medical Applications

Doses to the CERN 450-GeV super proton synchrotron and an estimate of radiation damage, Schönbacher, H. and F. Coninckx A288 (1990) 612
Development and performance test of a prototype air shower array for search for gamma ray point sources in the very high energy region, Amenomori, M., H. Nanjo, N. Hotta, I. Ohta, K. Kasahara, To. Saito, T. Yuda, K. Mizutani, T. Shirai, N. Tateyama, S. Torii, M. Shibata, H. Sugimoto, K. Taira, K. Hibino, F. Kajino, M. Nishizawa, M. Ohnishi, M. Sakata, M. Shima and Y. Yamamoto A288 (1990) 619
Tests of some prototype indium-loaded scintillators for solar neutrino detection, Payne, A.G.D. and N.E. Booth A288 (1990) 632
A monoenergetic neutron beam facility for biological irradiations, Dytlewski, N., A. Croal, D. Cohen, A. Katsaros, M. Lavin and S. Singh A288 (1990) 641

Synchrotron Radiation Research

RADID: a software for insertion device radiation calculation, Wang, C. and D. Xian A288 (1990) 649

Letter to the Editor

Investigation of the crystal scintillations in the VUV region, Buzulutskov, A.F., L.K. Turchanovich, V.G. Vasilchenko, Y.L. Jansons, Z.A. Rachko, V.J. Valbis and N.M. Khaidukov A288 (1990) 659

Erratum

DØ Calorimeter Group, Hadron and electron response of uranium/liquid argon calorimeter modules for the DØ detector, Nucl. Instr. and Meth. A280 (1989) 36–44 ..... A288 (1990) 662